

IN THE WORLD INTELLECTUAL PROPERTY ORGANIZATION
INTERNATIONAL BUREAU

In re Application of:

POLYONE CORPORATION and Peter
PRUSAK

Serial No.: PCT/US2004/032646
Filed: 01 October 2004
(01.10.2004)

For: USE OF TOCOPHEROL TO
SCAVENGE ACETALDEHYDE
IN POLYETHYLENE
TEREPHTHALATE
CONTAINERS

VIA FAX:
+41 22 740 14 35

Resubmitted Article 19 Amendment

Attention: LAMPIS Fabienne
The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20 Switzerland

Dear Sir or Madam:

Responding to the fax of 25 April from the IB, Applicants hereby re-submit an Article 19 Amendment by providing substitute claims pages. Applicants request publication using these substitute claims pages.

Claims 1 and 3 replaces Claims 1 and 3 as filed. Claims 2, 4-10 are unchanged.

The amendments identify the acetaldehyde scavenger consisting essentially of DL-alpha-tocopherol in an amount from about 5-18 weight percent. None of cited references disclose the use of only DL-alpha-tocopherol at this concentration.

I hereby certify that this paper is being facsimile transmitted to the International Bureau of WIPO on the date shown below to Fax Number +41 22 740 14 35:

25 April 2005
Date

Signed John H. Hornickel
John H. Hornickel, USA Reg. No. 29,393

25 April 2005
Date

PolyOne Corporation
33587 Walker Road
Avon Lake, Ohio 44012

Respectfully submitted by:

John H. Hornickel
John H. Hornickel
Registration No. 29,393
Telephone: 440-930-3317
Fax: 440-930-1179
John.Hornickel@PolyOne.com

What is claimed is:

1. A compound, comprising:
 - (a) polyethylene terephthalate, and
 - 5 (b) an acetaldehyde scavenger consisting essentially of DL-alpha-Tocopherol present in an amount ranging from about 5% to about 18% of the compound.
2. The compound of Claim 1, further comprising colorant.
- 10 3. The compound of Claim 1 or Claim 2, wherein the DL-alpha-Tocopherol is present in an amount ranging from about 5% to about 16.7% of the compound.
4. The compound of any of Claims 1-3, further comprising an additive selected from the group consisting of slip agents, antiblocking agents, antioxidants,
15 ultraviolet light stabilizers, quenchers, plasticizers, mold release agents, lubricants, antistatic agents, fire retardants, fillers, and combinations thereof.
5. The compound of Claim 4, wherein the filler comprises glass fibers, talc, chalk, clay, or combinations thereof.
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6. The compound of Claim 4 or Claim 5, wherein the additive is included in the compound in an amount from 0 to about 40 weight percent.
7. The compound of Claim 2, wherein the colorant is either
25 (a) an inorganic pigment selected from the group consisting of titanium dioxide, iron oxide, chromium oxide, lead chromate, carbon black, silica, talc, china clay, metallic oxides, silicates, chromates, and combinations thereof, or
(b) an organic pigment selected from the group consisting of phthalocyanine blue, phthalocyanine green, carbazole violet, anthrapyrimidine yellow, flavanthrone
30 yellow, isoindoline yellow, indanthrone blue, quinacridone violet, perylene reds, diazo red, and combinations thereof.
8. The compound of Claim 7, wherein the amount of colorant can range from none at all to about 4.0 weight percent.

9. A container made from the compound of any of Claims 1-8.

10. The use of DL-alpha-Tocopherol in a polymeric container of Claim 9 as a
5 scavenger for acetaldehyde in headspace of the container.

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